

TITLE: Synthesis of crystalline liquid compounds. III.
n-Alkyl and n-alkoxy derivatives of
2,5-diphenylpyrimidine

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CORPORATE SOURCE: Sek. Chem., Martin-Luther-Univ. Halle-Wittenberg,
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SOURCE: Journal fuer Praktische Chemie (Leipzig) (1970),
312(3), 494-506

DOCUMENT TYPE: Journal

LANGUAGE: German

AB 2,5-Bis(p-RC₆H₄-substituted) pyrimidines (I, where R = H, C₁-6 n-alkyl, or C₁-6 n-alkoxy), were prepared by condensing p-RC₆H₄CH(CO₂Et)₂ with p-RC₆H₄C(:NH)NH₂, treating with POCl₃ and reductive dechlorination. I (R = Me) showed only a nematic phase, I (R = Et or Pr) showed a nematic and a smectic phase, I (R = C₄-6 n-alkyl) showed only the smectic A-phase. Similarly I (R = MeO or EtO) were nematic, I (R = C₃-5 n-alkoxy) showed a smectic structure which was assigned to the smectic A and smectic C phases. Similarly, p-ROC₆H₄C(:NH)NH₂.HCl (where R = C₇-12 n-alkyl) showed crystalline liquid behavior.

IT 29134-22-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 29134-22-3 CAPLUS

CN 4(1H)-Pyrimidinone, 2,5-diphenyl- (9CI) (CA INDEX NAME)

